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4B Systems Design Engineering
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summary of qualifications

- Moderate programming experience in **Python**, **Javascript**, **Java**, **HTML**, **CSS**, and **SQL**.
- Strong interest in **user interface/interaction design** and **Human-Computer Interaction**.
- Previous programming experience in Node.js, Perl, PHP, C++, bash scripting and ColdFusion.
- Experience with Adobe Photoshop, Inkscape, Microsoft Office, and in Mac, Linux, and Windows environments.
- Strong natural leader and team-member.
- Bilingual in **English** and **French**.

experience

canopy labs

Data-Mining & Machine Learning Developer

Toronto, Ontario

April 2013 - August 2013 (Full-Time)

- Fixed bugs and added features to the full stack of the Canopy Labs customer analytics platform throughout a series of inter-related applications.
- Worked in a variety of environments (both new and familiar) including Python, PHP, C++, JavaScript, HTML5/CSS, R, shell scripting on both Mac and Linux operating systems.
- Worked with a variety of software development tools including Git, FogBugz, JIRA, Scons, and Selenium.

square

Android Developer

San Francisco, California

Jan 2012 – April 2012 (Full Time)

Sept 2012 – Dec 2012 (Full Time)

- Helped develop and build features, and identify and fix bugs across both Square's [Wallet](#) and [Register](#) **Android** applications.
- Coded across the entirety of the application, from layout files and UI to helper libraries to backend logic, home-screen app widgets and more.
- Contributed to maintaining software quality via tests using Android testing frameworks [Robolectric](#) and [Robotium](#).
- Worked primarily on OS X using **IntelliJ IDEA**, along with **git** and both **ant** and **maven** for building.

upverter

Blacksmith/Mad Scientist

Toronto, Ontario

May 2011 – August 2011 (Full Time)

- Contributed features and bug-fixes to the development of an HTML5 Canvas and Python web application for Electronic Circuit Design, as well as a community-centered project showcase and parts library.
- Learned multiple new languages and APIs over four months including **Python**, **Protocol Buffers**, **HTML5 Canvas** and **Google Closure**.
- Developed a robust Node.js-based standalone script that used the existing Javascript & HTML5

Canvas rendering process, and batch export images to PNG.

- Also contributed to various side projects including **Arduino** and **Android** connections over USB, MIDI signal generation and Amazon EC2 setup.

h4cker factory

Developer

Toronto, Ontario

November 2010 – June 2012 (Part Time)

- Developing & designing an **Android** application for deployment of a project-management assessment survey with other Waterloo Engineering students as freelance developers for a company in Toronto.
- Learned Java, the Android API, and **XStream** XML object conversion in a matter of weeks for the project.
- Also created user interface & look and feel for iPhone, Android and Blackberry versions of app.

ontario institute for cancer research

Genome Software Developer

Toronto, Ontario

May 2010 – December 2010 (Full Time)

- Bug-fixing, feature addition and updates in code & architecture on [GBrowse](#), an open-source web application built in Perl, HTML, CSS & Javascript and a variety of SQL-compliant databases.
- Built and tested from scratch a custom data-sharing system onto the existing application.
- Worked in an entirely Linux-based development environment using Subversion.
- Additionally developed a layout algorithm for sorting glyphs onto the theoretically smallest space for the project.

education

university of waterloo

Waterloo, Ontario

Candidate for Bachelor of Applied Sciences in Systems Design Engineering

September 2008 – present (2014 expected graduation)

Relevant Courses

- Pattern Recognition – Methods for classifying and interpreting measured data in groups.
- Machine Intelligence – Intelligent systems, artificial intelligence techniques.
- Simulating Neurobiological Systems – Neural computation, modelling techniques.
- Biomedical Measurement & Signal Processing – EMG, EKG, EEG signals.
- Control Systems – Controls engineering, systems theory, PID control and action.

clarkson secondary school

Mississauga, Ontario

Ontario Secondary School Diploma

June 2007

French Immersion Diploma

June 2007

awards

university of waterloo

Waterloo, Ontario

President's Scholarship

September 2008

clarkson secondary school

Mississauga, Ontario

Black Charger Award (800+ hours of extra-curricular involvement)

September 2007

Six Principal's Reception awards (awards for school commitment)

September 2006 – June 2008

activities & interests

- Drummer, Various jazz bands & combos, Mississauga & Waterloo, since January 2003
- Interested in cognitive science, human-computer interaction, interface design and artificial intelligence. Maintains an online sketchbook at <http://blg.chrs.vndvl.de>
- Webmaster for several websites, including the [Engineering Jazz Band](#).
- Historian for the University of Waterloo's [Engineering Society](#).